

## Abstract

### Method and arrangement for determining the concentration of glucose in a body fluid

The invention concerns a method and an arrangement for determining the concentration of glucose in a body fluid. In the microdialysis technology used for this purpose, perfusate containing glucose is transported in intermittent delivery pulses through a microdialysis probe (10) inserted into the body fluid and dialysate obtained in this process is passed to a measuring cell (16) to record the glucose content. In order to achieve an exact determination of glucose even with a reduced dialysis period, it is proposed that the starting content of glucose in the perfusate is adapted to the glucose content of the body fluid by means of a control device (18, 20) in accordance with a command variable derived from the measurement signals of the measuring cell (16). When the control deviation is negligible the momentary starting content of glucose in the perfusate can be determined as a measure for the glucose content of the body fluid.